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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/821,387	03/28/2001	Steve Wai Leung Yeung	25821P031	3593

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BLAKELY SOKOLOFF TAYLOR & ZAFMAN
12400 WILSHIRE BOULEVARD, SEVENTH FLOOR
LOS ANGELES, CA 90025

EXAMINER

BELL, PAUL'A

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 06/03/2003

14

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary

Application No.

09/821,387

Applicant(s)

YEUNG, STEVE WAI LEUNG

Examiner

PAUL A BELL

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 March 2003.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 12.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-9 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen (5,648,793).

With regard to claim 1 Chen teaches a method for driving an LCD (column 1, lines 5-8), comprising providing an LCD with a number of columns, providing an LCD with a number of rows, providing a number of pixels to said LCD, and driving the LCD by an applied field parameter selected from the group multi-row, multi-column, and multi-pixel inversion, to provide a reduced total fringe field effect to maintain contrast and a minimized flickering on a display (abstract, column 2, line 59 - column 3, line 7, figures 4b, 4c and 5).

With regard to claim 2 Chen teaches the method as defined in Claim 1, wherein the multi-row, multi-column and multi-pixel-inversions are adjustable (figures 4a, 4b and 4c).

With regard to claim 3 Chen teaches a method as defined in Claim 1, wherein there is a number of columns (m) which is any integer from two to the number of scan lines and wherein

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there is a number of rows (n) which is any integer from two to the number of column lines (inherent feature because a matrix is two or more).

With regard to claim 4 Chen teaches the method as defined in Claim 3, wherein there is an (n)-row inversion applied to a passively and an actively driven LCD, and wherein (n) is any integer from two to the number of scan lines (figures 1a show active case and since the lcd functions regardless of the driving method so passive is inherent).

With regard to claim 5 Chen teaches the method as defined in Claim 3, wherein there is an (m)-column inversion applied to an actively driven LCD, (m) being any integer from two to the number of column lines (figure 5).

With regard to claim 6 Chen teaches the method as defined in Claim 3, wherein there is an n x m-pixel inversion in an actively driven LCD, where (n) is an integer from two to the number of scan lines and (m) is an integer from two to the number of column lines (figure 5).

With regard to claim 7 Chen teaches the method as defined in Claim 1, wherein said method is applied to one of an actively driven miniature TFT LCD and a reflective liquid crystal on silicon LCD (figure 1a).

With regard to claim 8 Chen teaches the method as defined in Claim 1, wherein there is simultaneous inversion of one of a plurality of columns, rows or pixels of an LCD (figure 4a, 4b, and 4c).

With regard to claim 9 Chen teaches the method as defined in Claim 8, wherein said plurality comprises two (figure 5).

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Response to Arguments

3. Applicant's arguments filed 3/20/2003 have been fully considered but they are not persuasive in regards to claims.

In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., page 6 "The "multiple" inversion method limitations in amended claim 1 involves the **inversion of two or more consecutive frames**" and "applicant's figures 16 to 18 illustrate that the applied field parameter for driving a liquid crystal display is such that **inversion is applied for two or more consecutive frames**") are not recited in the rejected claim(s). Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

The language in claim 1 "applied **field parameter selected from the group** multi-row, multi-column, and multi-pixel inversion" is very broad that the reference reads on it.

Conclusion

4. The prior art made of record and not relied upon is considered very pertinent to applicant's disclosure.

Moriyama (5,790,092) (column 7, line 65- column 8 line 55, figure 13) show some type of frame inversion also.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul Bell whose telephone number is (703) 306-3019. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steven Saras, can be reached at (703) 305-9720.

Any response to this action should be mailed to: Commissioner of Patents and Trademarks
Washington, D.C. 20231
or faxed to: (703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Paul Bell

Paul Bell

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27 May 2003

Steven Saras
STEVEN SARAS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600